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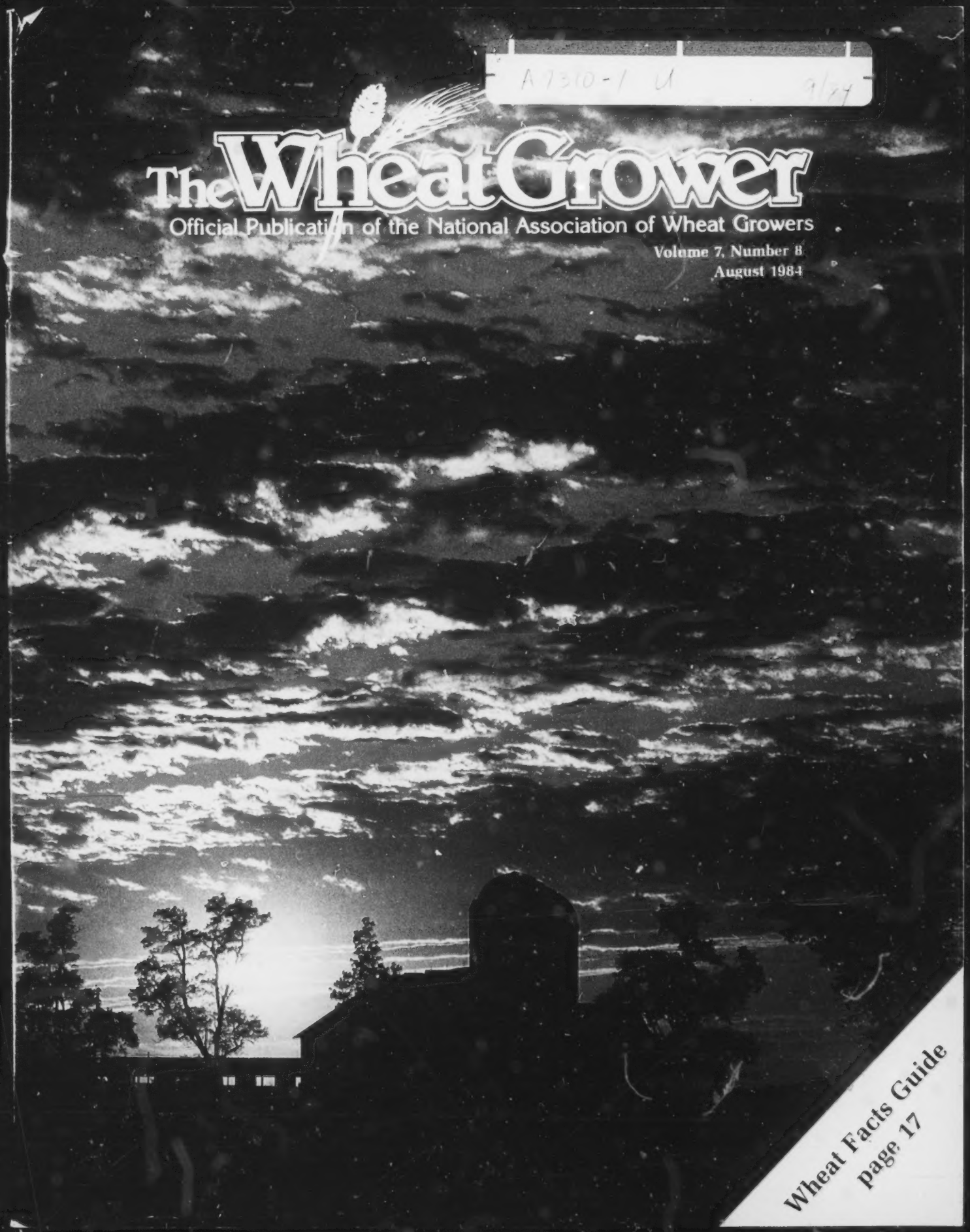

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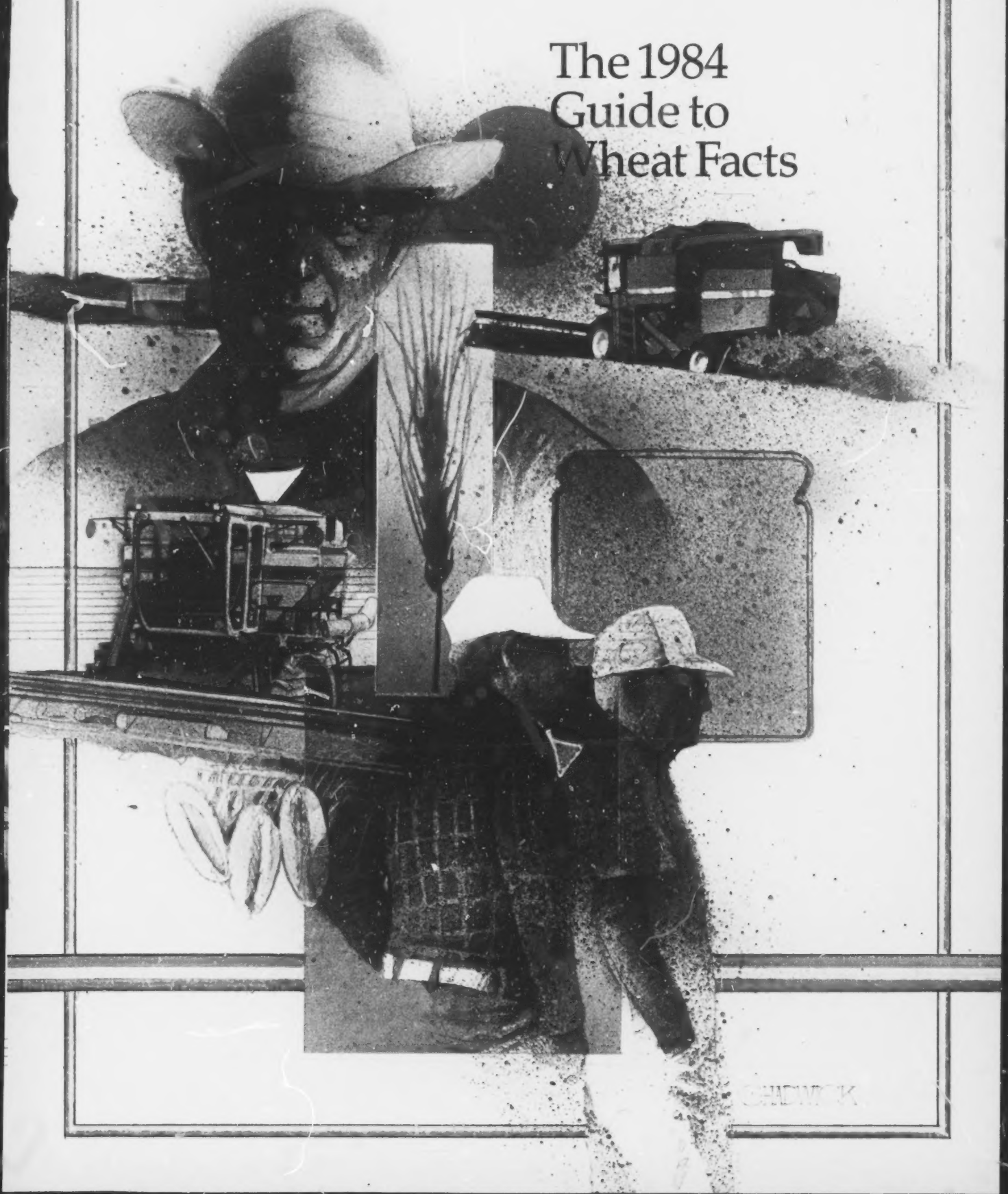
The 1984 Guide to Wheat Facts



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Wheat Facts was compiled by Richard Fritz

MAJOR EVENTS AFFECTING WHEAT GROWERS

July 1972	Soviet Union purchases 9.5 million metric tons of wheat; 3.7 million metric tons of corn; $750 million credit.
August 1972	1973 Farm Act signed into law by President Nixon; wheat target price at $2.05 per bushel; loan rate at $1.35.
October 1974	Wheat and corn sale contracts to the Soviet Union totaling 3.2 million metric tons are cancelled.
May 1975	Emergency Farm Legislation adopted; wheat target price at $3.10 a bushel; wheat loan level at $2.50 a bushel; vetoed by President Ford.
August 1975	Secretary Butz announces moratorium on Soviet grain purchases.
October 1975	Polish ban lifted. President Ford announces a five-year U.S.-USSR grain agreement; moratorium ended in September.
September 1977	Agriculture Act of 1977 signed into law.
May 1978	Emergency Farm Legislation signed by President Carter authorizing a $3.40 target price for wheat in 1978.
January 1980	President Carter halts all U.S. grain shipments above eight MMT to the USSR in response to invasion of Afghanistan.
March 1980	President Carter signs Agricultural Adjustment Act of 1980 increasing 1980 wheat target price to $3.63.
December 1980	President Carter signs Agricultural Trade Suspension Adjustment Act of 1980 increasing 1980 wheat loan to $3.00 a bushel, and reserve loan to $3.30.
April 1981	President Reagan lifts Soviet grain embargo.
April 1981	Secretary of Agriculture Block increases the 1981 wheat loan to $3.20 per bushel and reserve loan to $3.50 per bushel.
August 1981	U.S. and Soviets agree to one-year extension of long-term grain supply agreement.
September 1981	Secretary Block announces proposed 1982 wheat program, including 15 percent acreage reduction.
December 1981	President Reagan signs new four-year farm bill, mandating increased 1982 crop wheat loan to $3.55 and 1982 target to $4.05.
December 1981	President Reagan postpones negotiations on a new long-term grain agreement with the USSR in response to Polish Crisis.
February 1982	Secretary Block finalizes 1982 program, including $4.00 reserve loan and $4.65 trigger for wheat.
July 1982	1983 wheat program announcement includes 20 percent acreage reduction, extension of current loan levels, and target increase to $4.30.
July 1982	President Reagan announces offer to extend U.S.-Soviet grain agreement for one year.
January 1983	Secretary Block announces Payment-In-Kind program (PIK) for major 1983 crops.
July 1983	U.S.-Soviet four year agreement reached requiring the USSR to purchase nine million tons of wheat and corn annually.
April 1984	President signs bill setting wheat target prices at $4.38 for two years, along with a 10 percent paid diversion, a 20 percent acreage reduction, and a 10 to 20 percent PIK.

Annual U.S. Wheat Production

CROP YEAR	ACREAGE PLANTED million acres	ACREAGE HARVESTED million acres	YIELD PER HARVESTED ACRE bushels	PRODUCTION million bushels
1960	54.9	51.9	26.1	1,354.7
1961	55.7	51.6	23.9	1,232.4
1962	49.3	43.7	25.0	1,092.0
1963	53.4	45.5	25.2	1,146.8
1964	55.7	49.8	25.8	1,283.4
1965	57.4	49.6	26.5	1,315.6
1966	54.1	49.6	26.3	1,304.9
1967	67.3	58.4	25.8	1,507.6
1968	61.9	54.8	28.4	1,556.7
1969	53.5	47.1	30.6	1,442.7
1970	48.7	43.6	31.0	1,351.6
1971	53.8	47.7	33.9	1,618.6
1972	54.9	47.3	32.7	1,546.2
1973	59.3	54.1	31.6	1,710.8
1974	71.0	65.4	27.3	1,781.9
1975	74.9	69.5	30.6	2,126.9
1976	80.4	70.9	30.3	2,148.8
1977	75.4	66.7	30.7	2,045.5
1978	66.0	56.5	31.4	1,775.5
1979	71.4	62.5	34.2	2,134.1
1980	80.6	71.0	33.4	2,374.3
1981	88.9	81.0	34.5	2,798.7
1982	87.4	79.0	35.6	2,812.3
1983*+	76.8	61.5	39.4	2,425.4
1984*+	82.6	66.7	38.2	2,550.0

*Projection, July 1983
+Payment-In-Kind program operational
Source: FAS, ERS, USDA

Wheat Production in NAWG States

1981-1983

STATE	AREA HARVESTED			YIELD			PRODUCTION		
	1981	1982	1983	1981	1982	1983	1981	1982	1983
	1,000 ACRES			BUSHELS			1,000 BUSHELS		
ARIZ	258	143	119	84.7	86.8	93.2	21,844	12,407	11,094
CALIF	1,365	1,125	720	78.5	72.6	66.5	107,085	81,625	47,900
COLO	3,108	3,048	3,063	28.3	28.7	39.9	87,877	87,504	122,103
IDAHO	1,510	1,500	1,305	59.5	62.8	70.3	89,780	94,200	91,710
KANSAS	12,200	13,200	10,800	25.0	35.0	41.5	305,000	462,000	448,200
MINN	3,610	3,184	2,140	39.9	39.8	36.9	144,025	126,809	78,960
MONT	5,820	5,360	4,455	29.7	34.2	30.7	172,830	183,560	136,930
NEBR	2,900	2,900	2,300	36.0	35.0	43.0	104,400	101,500	98,900
N MEX	500	530	470	22.0	25.0	29.0	11,000	13,250	13,630
N DAK	11,690	10,490	7,220	28.4	31.5	27.0	331,700	330,785	194,595
OKLA	6,400	6,900	4,300	27.0	33.0	35.0	172,800	227,700	150,500
OREG	1,310	1,200	1,085	59.1	53.8	60.4	77,380	64,500	65,570
S DAK	3,820	3,595	2,727	23.3	27.7	32.9	88,970	99,630	89,729
TEX	6,550	6,000	4,600	28.0	24.0	35.0	183,400	144,000	161,000
WASH	3,050	2,840	2,640	55.2	48.9	64.1	168,350	138,880	169,320
WYO	284	309	249	29.7	27.9	33.1	8,430	8,628	8,238

Source : Crop Reporting Board, USDA

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U.S. Wheat: Marketing Year Wheat Supply and Disappearance

YEAR BEGINNING JUNE 1	SUPPLY: BEGINNING STOCKS	SUPPLY: PRODUCTION	SUPPLY: IMPORTS	SUPPLY: TOTAL	DISAPPEARANCE: DOMESTIC DISAPPEARANCE	DISAPPEARANCE: EXPORTS	DISAPPEARANCE: TOTAL DISAPPEARANCE	MAY 31 ENDING STOCKS
	---Million Bushels---							
1965/66	817	1,316	1	2,134	732	867	1,599	535
1966/67	535	1,305	2	1,842	674	744	1,418	424
1967/68	424	1,508	1	1,933	633	761	1,394	539
1968/69	539	1,556	1	2,096	735	544	1,279	817
1969/70	817	1,443	3	2,263	772	606	1,378	885
1970/71	885	1,352	1	2,238	769	738	1,507	731
1971/72	731	1,619	1	2,351	856	632	1,488	863
1972/73	863	1,546	1	2,410	786	1,027	1,813	597
1973/74	597	1,711	3	2,311	754	1,217	1,971	340
1974/75	340	1,782	3	2,125	672	1,018	1,690	435
1975/76	435	2,122	2	2,559	721	1,173	1,894	665
1976/77	665	2,142	3	2,810	748	950	1,698	1,112
1977/78	1,112	2,036	2	3,150	849	1,124	1,973	1,177
1978/79	1,177	1,798	1	2,976	857	1,194	2,051	925
1979/80	924	2,134	2	3,060	783	1,375	2,158	902
1980/81	902	2,374	3	3,279	776	1,514	2,290	989
1981/82	989	2,799	3	3,791	856	1,771	2,627	1,164
1982/83 1/	1,164	2,812	8	3,984	934	1,509	2,443	1,541
1983/84 2/	1,541	2,425	3	3,969	1,152	1,425	2,577	1,392
1984/85 2/	1,392	2,550	3	3,945	1,125	1,350	2,475	1,470

1/ Estimated

2/ Projected as of July, 1984

U.S. Wheat by Classes: Supply and Disappearance[1]

Year Beginning June 1	Hard Winter	Hard Spring	Soft Red	White	Durum	Total
1984/85 FORECAST			(Million Bushels)			
Beginning stocks	734	319	74	166	101	1,394
Production	1,187	360	540	332	105	2,524
Supply, total 2/	1,921	680	614	498	206	3,921
Domestic use	510	181	293	74	49	1,107
Exports	695	210	230	210	55	1,400
Use, total	1,205	391	523	284	104	2,507
Ending stocks	716	289	91	214	105	1,414
1983/84 ESTIMATE						
Beginning stocks	754	408	74	143	136	1,515
Production	1,192	313	507	335	73	2,420
Supply, total 2/	1,946	722	581	478	211	3,938
Domestic use	508	182	285	92	48	1,115
Exports	704	221	222	220	62	1,429
Use, total	1,212	403	507	312	110	2,544
Ending stocks	734	319	74	166	101	1,394

1/ Includes flour and products in wheat equivalent.
2/ Total supply includes imports.

U.S. Wheat: Supply and Use, 1930/31–1984/85[1]

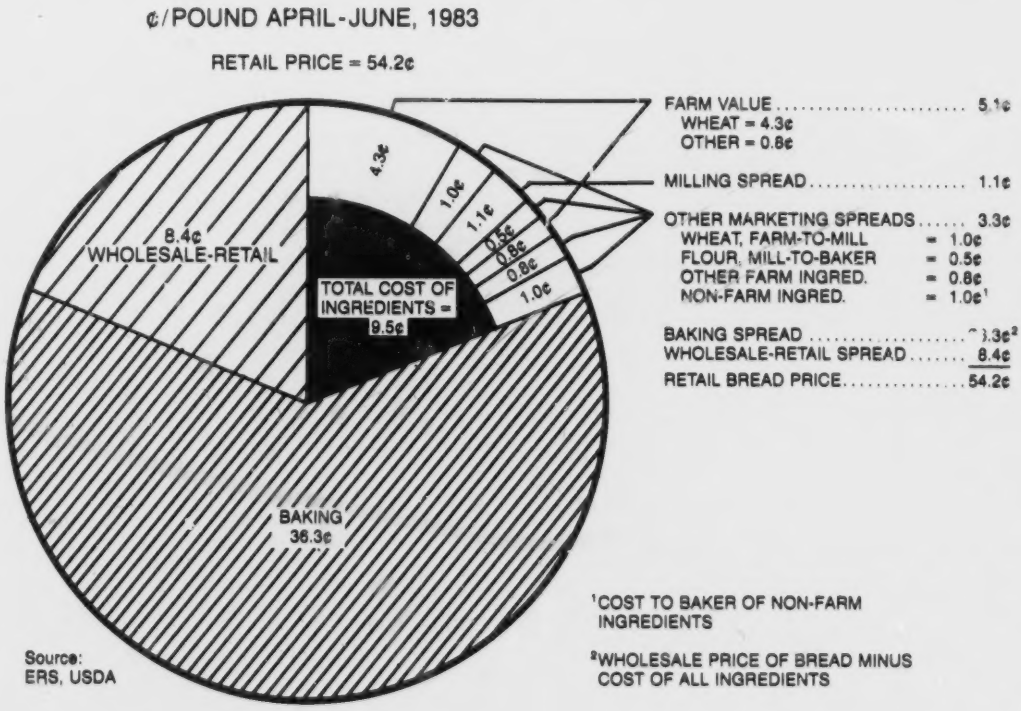
Year	Planted Acres (thous.)	Harvested Acres (thous.)	Yield (bu./ac.)	Production	Supply	Domestic Use	Exports	Carryover	Exports as a share of production (percent)	World Trade (mil.bu.)	U.S. share of World Trade (percent)
				(mil. bu.)							
1930/31	67,559	62,637	14.2	887	1,178	751	115	312	13	820	14
1940/41	61,820	53,273	15.3	815	1,099	680	34	385	4	479	7
1950/51	71,287	61,607	16.5	1,019	1,526	690	345	492	34	892	39
1960/61	54,906	51,879	26.1	1,335	2,747	591	654	1,502	48	1,540	42
1970/71	48,739	43,564	31.0	1,352	2,336	772	741	823	55	2,021	37
1975/76	74,900	69,499	30.6	2,127	2,564	726	1,173	666	55	2,451	48
1980/81	80,637	70,984	33.4	2,374	3,279	776	1,514	989	64	3,458	44
1981/82	88,928	81,013	34.5	2,799	3,791	856	1,771	1,164	63	3,720	48
1982/83	87,427	78,841	35.6	2,812	3,983	934	1,509	1,541	54	3,612	42
1983/84 2/	76,817	61,492	39.4	2,425	3,969	1,152	1,425	1,392	58	3,715	38
1984/85 3/	82,607	66,754	38.2	2,550	3,945	1,125	1,350	1,470	53	3,711	36

1/ U.S. data are on July/June years for 1930/31 and 1940/41. Other data are on June/May years. World trade data are July/June world exports.

2/ Preliminary

3/ Projected

White Pan Bread Marketing Spreads



Sponsored by Rohm and Haas Seeds Inc.

Use of Wheat

CROP YEAR	DOMESTIC FOOD USE	FEED, SEED INDUSTRIAL USE	EXPORTS 1/	TOTAL USE	ENDING CARRYOVER	CCC INVENTORY	RESEED/ FARMER-OWNED RESERVE 2/
1960	496.5	94.6	653.5	1,245.0	1,502.0	1,242.0	38.0
1961	504.1	100.4	715.7	1,320.0	1,421.0	1,097.0	37.0
1962	502.6	96.1	649.4	1,248.0	1,270.0	1,082.0	29.0
1963	488.0	93.6	845.6	1,427.0	994.0	829.0	10.0
1964	514.5	120.5	722.7	1,358.0	921.0	646.0	—
1965	517.8	207.5	852.0	1,577.0	660.0	340.0	3.0
1966	505.1	178.0	771.0	1,454.0	513.0	124.0	8.0
1967	517.9	107.9	765.0	1,391.0	630.0	102.0	—
1968	522.4	217.3	544.0	1,284.0	904.0	163.0	—
1969	520.1	243.8	603.0	1,367.0	983.0	301.0	—
1970	517.2	254.8	741.0	1,513.0	823.0	370.0	8.0
1971	523.7	325.6	610.0	1,459.0	984.0	367.0	13.0
1972	531.8	267.0	1,135.0	1,934.0	597.0	144.0	11.0
1973	544.3	209.2	1,217.0	1,971.0	340.0	19.0	—
1974	541.0	126.9	1,018.0	1,690.0	435.0	1.0	—
1975	589.0	137.2	1,173.0	1,898.0	666.0	0.0	—
1976	588.0	167.0	950.0	1,705.0	1,113.0	0.0	—
1977	587.0	272.0	1,124.0	1,983.0	1,178.0	48.0	335.0
1978	592.0	246.0	1,194.0	2,032.0	924.0	51.0	403.0
1979	595.0	188.0	1,375.0	2,158.0	902.0	188.0	260.0
1980	611.0	165.0	1,514.0	2,290.0	989.0	200.0	360.0
1981	602.0	254.0	1,771.0	2,627.0	1,164.0	190.0	560.0
1982*	616.0	317.0	1,509.0	2,442.0	1,541.0	192.0	1,061.0
1983*	625.0	527.0	1,425.0	2,577.0	1,392.0	210.0	600.0
1984**	615.0	510.0	1,350.0	2,475.0	1,470.0		

1/ Includes foreign currency and long-term credit, donations, barter, and Agency for International Development programs.

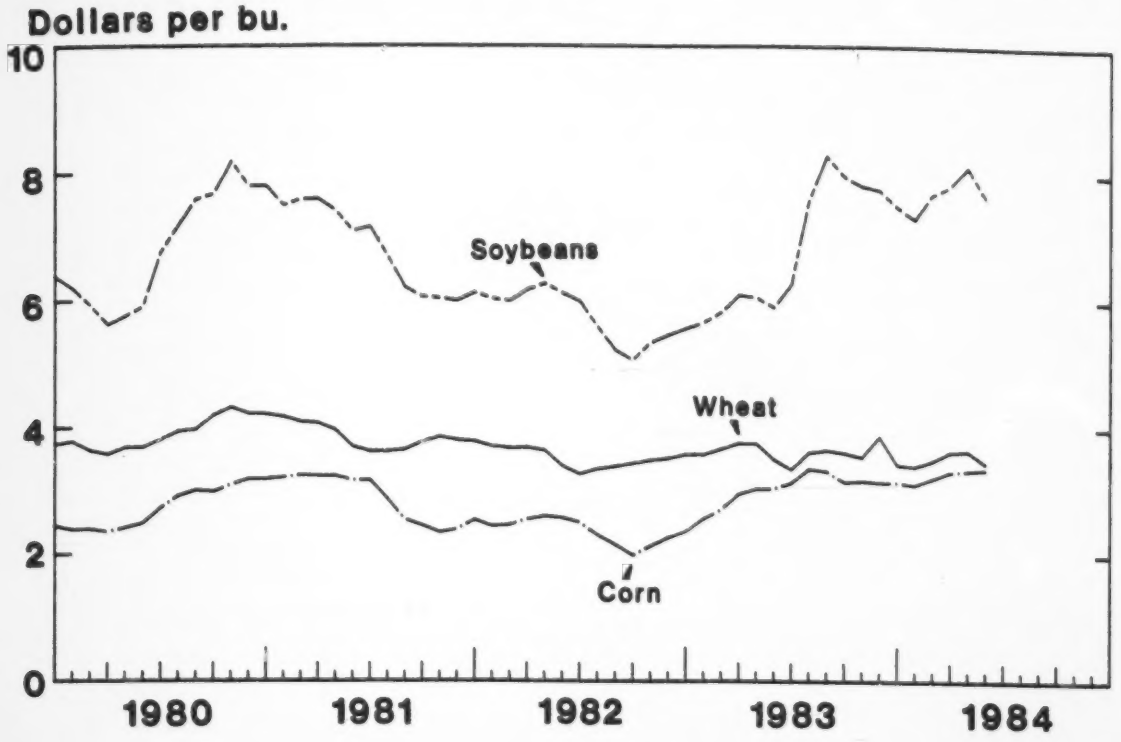
2/ The Farmer-Owned Reserve Program started in crop year 1977, prior to that the Reseed Program was in effect.

* Preliminary

** Projected

All figures shown in million bushels.

Prices Received by U.S. Farmers



Monthly Prices Received by Farmers: All Wheat

BY STATES, 1982-83; UNITED STATES, 1978-83

STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YR. AVE
	DOLLARS PER BUSHEL												
	1983												
ARIZ	3.75	3.65	3.75	3.90	4.13	3.98	4.05	3.89	3.99	4.17	3.97	3.95	3.93
ARK	3.20	3.30	.62	3.38	3.31	3.25	3.21	3.70	3.61	3.21	3.30	3.44	3.38
CALIF	4.18	4.14	4.02	3.98	3.85	3.96	3.86	4.22	4.23	4.21	4.27	4.31	4.10
COLO	3.49	3.48	3.54	3.61	3.50	3.36	3.12	3.26	3.31	3.28	3.28	3.26	3.37
IDAHO	3.85	3.88	3.93	3.94	4.00	3.73	3.44	3.53	3.49	3.36	3.40	3.46	3.67
ILL	3.24	3.25	3.34	3.37	3.36	3.22	3.26	3.59	3.46	3.39	3.45	3.40	3.36
IND	3.15	3.22	3.29	3.33	3.37	3.35	3.26	3.53	3.56	3.41	3.25	3.47	3.35
KANS	3.49	3.58	3.64	3.69	3.49	3.45	3.28	3.43	3.52	3.41	3.40	3.40	3.48
MICH	3.29	3.53	3.53	3.58	3.59	3.32	3.44	3.43	3.45	3.36	3.21	3.24	3.41
MINN	3.41	3.41	3.63	3.81	3.91	3.91	3.94	3.83	3.79	3.82	3.83	3.80	3.76
MO	3.14	3.23	3.21	3.27	3.17	3.23	3.17	3.45	3.43	3.32	3.27	3.33	3.27
MONT	3.54	3.52	3.62	3.64	3.76	3.69	3.71	3.71	3.73	3.71	3.64	3.55	3.65
NEBR	3.46	3.50	3.48	3.59	3.55	3.45	3.30	3.33	3.46	3.31	3.25	3.28	3.41
N DAK	3.30	3.27	3.49	3.78	3.85	3.85	3.82	3.88	3.85	3.78	3.78	3.60	3.69
OHIO	3.16	3.14	3.29	3.25	3.30	3.21	3.28	3.52	3.46	3.38	3.36	3.46	3.32
OKLA	3.54	3.54	3.69	3.60	3.44	3.27	3.24	3.39	3.52	3.42	3.40	3.42	3.46
OREG	4.16	4.23	4.29	4.27	4.13	4.03	3.80	3.84	3.83	3.73	3.63	3.57	3.96
S DAK	3.34	3.34	3.48	3.75	3.83	3.74	3.66	3.74	3.60	3.71	3.59	3.59	3.61
TEX	3.54	3.56	3.58	3.62	3.59	3.36	3.26	3.34	3.40	3.36	3.35	3.38	3.45
WASH	4.14	4.24	4.23	4.23	4.05	3.81	3.81	3.78	3.77	3.73	3.71	3.59	3.92
	1982												
ARIZ	3.85	3.94	3.24	3.66	3.49	3.54	3.27	3.59	4.10	3.93	3.92	3.92	3.70
ARK	3.52	3.39	3.50	3.22	3.30	3.24	3.14	2.92	2.86	2.70	2.85	3.08	3.14
CALIF	4.24	4.00	3.94	3.76	3.63	3.63	3.68	3.75	3.88	3.80	4.08	4.12	3.88
COLO	3.68	3.58	3.59	3.60	3.51	3.41	3.26	3.14	3.23	3.26	3.33	3.41	3.42
IDAHO	3.76	3.67	3.57	3.61	3.52	3.55	3.54	3.54	3.58	3.61	3.67	3.63	3.61
ILL	3.88	3.42	3.40	3.51	3.25	3.03	3.10	2.99	2.96	2.88	3.03	3.16	3.22
IND	3.69	3.30	3.31	3.33	3.35	3.21	3.14	3.08	2.91	2.73	2.99	3.01	3.17
KANS	3.81	3.81	3.76	3.74	3.74	3.40	3.30	3.29	3.31	3.23	3.38	3.49	3.52
MICH	3.52	3.27	3.38	3.22	3.20	3.21	3.29	3.30	3.23	2.79	3.00	3.18	3.22
MINN	3.75	3.72	3.70	3.76	3.75	3.67	3.65	3.49	3.46	3.47	3.55	3.42	3.62
MO	3.47	3.43	3.29	3.38	3.14	3.09	2.80	2.87	2.76	2.63	2.98	3.20	3.09
MONT	3.81	3.76	3.72	3.80	3.73	3.64	3.60	3.44	3.46	3.45	3.50	3.55	3.63
NEBR	3.68	3.67	3.69	3.65	3.59	3.50	3.30	3.21	3.23	3.22	3.27	3.39	3.45
N DAK	3.57	3.59	3.55	3.62	3.62	3.53	3.46	3.34	3.30	3.32	3.40	3.28	3.46
OHIO	3.73	3.38	3.35	3.39	3.28	3.18	3.20	3.05	2.93	2.73	3.08	3.10	3.20
OKLA	3.91	3.84	3.77	3.84	3.76	3.47	3.39	3.33	3.37	3.40	3.43	3.49	3.58
OREG	3.96	3.76	3.76	3.86	3.83	3.72	3.80	3.82	3.79	3.93	3.98	4.16	3.86
S DAK	3.56	3.48	3.55	3.54	3.56	3.54	3.46	3.37	3.43	3.42	3.50	3.41	3.48
TEX	3.77	3.63	3.77	3.72	3.55	3.42	3.25	3.29	3.29	3.26	3.49	3.55	3.50
WASH	3.99	3.94	3.89	3.79	3.84	3.88	3.78	3.83	3.89	3.90	4.05	4.10	3.91
YEAR	UNITED STATES												
1983	3.57	3.57	3.66	3.75	3.75	3.50	3.34	3.61	3.65	3.61	3.54	3.48	3.59
1982	3.78	3.70	3.67	3.68	3.64	3.39	3.26	3.34	3.38	3.43	3.48	3.51	3.52
1981	4.21	4.17	4.09	4.07	3.95	3.70	3.62	3.62	3.65	3.77	3.85	3.80	3.87
1980	3.74	3.78	3.64	3.58	3.69	3.69	3.81	3.94	3.99	4.19	4.32	4.22	3.86
1979	2.99	2.99	2.97	3.01	3.20	3.72	3.89	3.74	3.87	3.98	3.94	3.81	3.51
1978	2.53	2.59	2.67	2.82	2.82	2.81	2.81	2.88	2.92	2.99	3.04	3.01	2.82

Source: ANNUAL PRICE SUMMARY, JUNE 1984, CRB, SRS

Sponsored by Rohm and Haas Seeds Inc.

Wheat Program Summary I

CROP YEAR	PRODUCTION (million bushels)	SUPPORT PRICE/ TARGET PRICE ($/bushel)	DIRECT PAYMENTS ($/bushel)	LOAN RATE ($/bushel)	AVERAGE PRICE TO FARMERS (per bushel)	FARM VALUE (million $)	GOVERNMENT PAYMENTS (million $)
1960	1,354.7	$1.78	—	$1.74	$1.74	$2,361.2	
1961	1,232.4	1.79	--	1.83	1.83	2,254.7	
1962	1,092.0	2.00	--	2.04	2.04	2,225.7	$285.5 Diversion
1963	1,146.8	2.00	.18	1.88	1.85 (2.03)g	2,125.3	242.6 Diversion & pr. sup.
1964	1,283.4	2.00	.70/.25	1.30	1.37 (1.80)g	,757.0	442.9 Div. & Certificates
1965	1,315.6	2.00	.75/.30	1.25	1.35 (1.79)g	1,774.5	509.2 "
1966	1,304.9	2.57	1.32	1.25	1.63 (2.22)g	2,129.9	681.3 "
1967	1,507.6	2.61	1.36	1.25	1.39 (1.87)g	2,090.1	727.1 Certificates
1968	1,556.7	2.63	1.38	1.25	1.24 (1.79)g	1,929.1	746.0 "
1969	1,442.7	2.77	1.52	1.25	1.25 (1.89)g	1,795.7	855.9 Div. & Certificates
1970	1,351.6	2.82	1.57	1.25	1.33 (2.08)g	1,803.2	871.0 "
1971	1,618.6	2.93	1.63	1.25	1.34 (1.88)g	2,166.7	885.7
1972	1,546.2	3.02	1.34	1.25	1.76 (2.23)g	2,704.1	858.7 Div. & Certificates
1973	1,710.8	3.39	.68	1.25	3.95 (4.17)g	6,719.2	478.2 "
1974	1,781.9	2.05	—	1.37	4.09 --	7,287.0	None Div. or Deficiency
1975	2,126.9	2.05	--	1.37	3.56 --	7,553.0	None "
1976	2,148.8	2.29	--	2.25	2.73 --	5,870.0	None "
1977	2,045.5	2.90	.65	2.25	2.33 --	4,766.0	996.4 Deficiency
1978	1,775.5	3.40	.52	2.35	2.97	5,280.6	632.5 " , Hay & Grazing
1979	2,134.1	3.40	—	2.50	3.78	8,070.4	None
1980	2,374.5	3.08/3.63	—	3.00/3.30	3.91	9,278	None
1981	2,798.7	3.81	.15	3.20/3.50	3.65	10,225	415.0 Deficiency
1982*	2,812.3	4.05	.50	3.55/4.00	3.55	9,972	475.0* Deficiency
1983*	2,425.4	4.30	.65	3.65	3.55*	10,499	
1984	2,550.0*	4.38	—	3.30	--		
1985	--	4.38	--	3.30	--		

* Preliminary

Cost of Production

1976-83 Cost of Production

All Wheat, Total U.S.
1976-1983

	1976	1977	1978	1979	1980	1981	1982	1983 (B)
	(Cost per acre, in dollars)							
Total Variable Costs	39.59	37.24	37.14	45.05	56.39	65.04	66.38	66.54
Seed	5.83	3.93	4.00	5.01	6.51	7.03	6.56	6.35
Fertilizer	10.22	9.28	8.02	9.90	13.63	16.63	16.65	16.78
Lime	0.15	0.13	0.12	0.16	0.23	0.34	0.36	0.37
Chemicals	1.30	1.14	2.12	2.08	2.23	2.29	2.48	2.39
Custom Operations	3.24	2.82	2.35	2.68	2.95	3.28	3.42	3.39
Labor	7.18	8.02	8.06	8.63	9.28	10.35	10.74	10.57
Fuel and Lubrication	4.87	4.80	5.06	7.64	10.62	12.36	12.14	12.08
Repairs	4.90	5.24	5.72	6.47	7.23	8.09	8.83	9.17
Purchased Water	0.32	0.50	0.18	0.25	0.29	0.29	0.29	0.30
Interest	1.58	1.38	1.39	2.09	3.22	4.12	4.65	4.88
Misc.	0.00	0.00	0.12	0.14	0.20	0.26	0.26	0.27
Machinery	17.58	18.69	23.26	29.21	34.25	39.87	42.85	45.67
General Farm Overhead	5.78	6.16	7.15	8.45	8.80	9.69	9.82	10.01
Management	6.16	6.21	6.76	8.27	9.94	11.46	11.83	12.24
Total Cost Excluding Land	69.11	68.30	74.30	90.98	109.38	126.06	130.88	134.46
Land Costs (Share Renter (C))	34.56	34.15	37.15	45.49	54.69	63.03	65.44	67.23
Total Cost	103.67	102.45	111.45	136.47	164.07	189.09	196.33	201.70
Yield/Acreage Planted (BU.)	27.1	27.7	29.9	32.4	29.9	31.5	32.5	35.0
Value of Pasture/BU.	0.06	0.12	0.13	0.11	0.14	0.14	0.15	0.16
Total Cost/BU.	3.83	3.70	3.73	4.21	5.49	6.00	6.04	5.77

(A) Source: USDA, cost of producing selected crops.
(B) Chase Econometrics Estimates.
(c) Source: NAWG estimated as one-half of total costs excluding land.

Wheat Program Summary II

YEAR	NUMBER OF FARMS PARTICIPATING	ACREAGE ALLOTMENT/BASE ON FARMS PARTICIPATING	NATIONAL ACREAGE ALLOTMENT/ BASE 1/	ACREAGE DIVERSION/ SET-ASIDE ON FARMS PARTICIPATING	PAYMENTS, DIVERSION & SG&H *	MARKETING CERTIFICATE/ DEFICIENCY PAYMENTS
1960	not available	not available	55,000,000	none	none	none
1961	not available	not available	55,000,000	none	none	none
1962	777,714	41,183,000	55,000,000	10,699,000	$285,524,000	none
1963	409,890	25,023,000	55,000,000	7,161,000	163,394,000	79,200,000 2/
1964	584,955	39,267,000	53,200,000	5,123,000	32,716,000	410,176,000
1965	819,535	43,465,000	53,300,000	7,185,000	36,882,000	472,338,000
1966	809,079	42,120,000	51,600,000	8,257,000	26,156,000	655,186,000
1967	769,295	56,887,000	68,200,000	none	none	727,053,000
1968	803,050	50,155,000	59,300,000	none	none	745,974,000
1969	953,318	45,243,000	51,600,000	11,097,000	71,612,000	784,336,000
1970	923,302	39,867,000	45,500,000	15,723,000	62,548,000	808,458,000
1971	1,011,954	18,122,000	19,700,000 3/	13,500,000 4/	---	885,653,000
1972	976,338	18,314,000	19,700,000 3/	20,106,000	132,000,000	726,670,000
1973	1,053,360	17,783,000	18,700,000 3/	7,372,000	103,024,000	375,226,000
1974	NA**	NA	55,000,000	NA	NA	NA
1975	NA	NA	53,500,000	NA	NA	NA
1976	NA	NA	61,600,000	NA	NA	NA
1977	NA	NA	62,200,000	none	none	996,416,000
1978	not available	41,965,000	58,800,000 5/	9,600,000 7/	15,116,000	617,353,000
1979	not available	36,142,300	70,100,000 5/	8,200,000 7/	none	none
1980	666,143	73,349,613	75,000,000 5/	none	none	none
1981	782,608	81,725,768 8/	84,500,000 5/	none	none	414,588,000
1982	222,912	43,753,209 10/	90,661,347 9/	5,800,000	none	476,272,000
1983	not available	----------	----------	----------	305,000,000	850,000,000 6/

1/ 1964 through 1969 includes the increase in small farm allotment authorized by law
2/ Price support payments in 1963
3/ Domestic Allotment
4/ Required Set-Aside
5/ National Program Acreage
6/ Preliminary
7/ Includes set-aside and special grazing and hay program acreage
8/ Acreage on which program payments were based.
9/ Acreage base eligible to participate in program
10/ Acreage base complying with program provisions
* SG&H = Special Grazing and Hay Program
** NA: not applicable

Wheat Parity Prices

Annual Averages		1983, Monthly		1984, Monthly	
1950	$ 2.21	January	$ 7.28	January	$ 7.42
1955	2.51	February	7.30	February	7.45
1960	2.37	March	7.33	March	7.50
1965	2.56	April	7.37	April	7.51
1970	2.82	May	7.39	May	7.51
1975	4.57	June	7.41	June	7.50
		July	7.39		
1977	5.03	August	7.43		
1978	5.27	September	7.45		
1979	5.94	October	7.44		
1980	6.57	November	7.47		
1981	7.07	December	7.49		
1982	7.25				
1983	7.40				

Sponsored by Rohm and Haas Seeds Inc.

Rate of Income Return to Equity, By Debt/Asset Ratio and Interest Rate[1]

Debt/asset ratio (percent)	Interest rate on outstanding debt (percent)		
	7	11	15
	Return to equity (percent)		
0	3.0	3.0	3.0
10	2.6	2.1	1.7
20	2.0	1.0	0.0
30	1.3	-0.4	-2.1
40	0.3	-2.3	-5.0
50	-1.0	-5.0	-9.0
60	-3.0	-9.0	-15.0

1/ This table assumes a farm on which the rate of income return to assets is 3 percent, approximately the average for the farm sector in 1982. To illustrate: if the farm also had the average debt/asset ratio for the farm sector, 20 percent, and the average interest rate, 11 percent, its rate of income return to equity would be 1.0 percent.

Source: Modified from Emanuel Melichar, Federal Reserve Bulletin, January 1984.

Debt Distribution by Farm Size[1]

Size of farm 2/	RATIO OF DEBT TO ASSETS* 0-10	11-40	41-70	71 and over	Total
	Percent of operators				
All farms	58	24	11	8	100
Large	21	36	25	19	100
Medium	34	35	18	13	100
Small	55	26	11	8	100
Very small	73	16	7	4	100
	Percent of debt owed by operators				
All farms	5	32	32	31	100
Large	3	27	33	38	100
Medium	5	34	32	29	100
Small	8	37	29	26	100
Very small	8	38	31	23	100

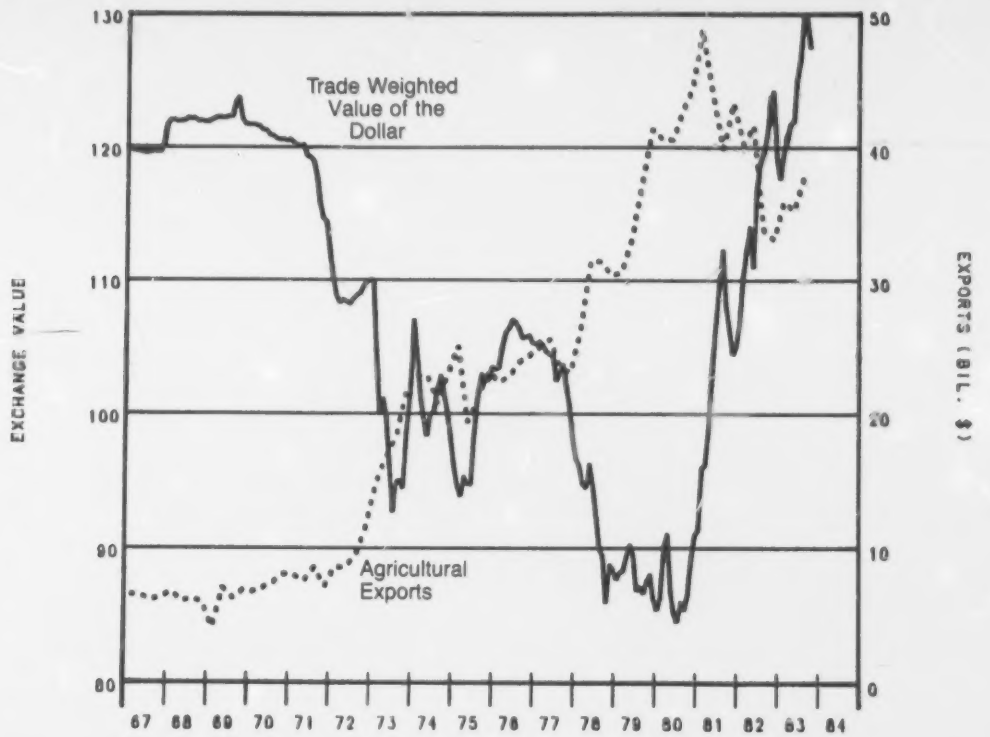
1/ As of January 1, 1984. Estimates based on data from Bureau of the Census, 1979 Farm Finance Survey.

2/ According to annual sales of farm products sold, as follows: large, $200,000 and over; medium, $40,000 to $199,999; small, $10,000 to $39,999; and very small, under $10,000.

*Example: 21 percent of the large farm operators have a debt ratio between one and ten (top chart), these farms own three percent of all debt owed (bottom chart).

Source: Emanuel Melichar, Federal Reserve Bulletin, January 1984.

Exchange Value of the Dollar Versus U.S. Agricultural Exports



Source: G. Edward Schuh, Professor and Head, Department of Agricultural and Applied Economics, University of Minnesota

Wheat: World Production, Consumption, and Net Exports[1]

Country	1982/83			1983/84			1984/85 2/		
	Prod.	Cons.	Net exports	Prod.	Cons.	Net exports	Prod.	Cons.	Net exports
	(Million Metric Tons)								
Major exporters									
United States	76.5	25.4	39.7	66.0	32.1	38.0	69.4	30.6	36.7
Canada	26.8	5.1	21.2	26.9	5.3	20.5	26.0	5.4	21.0
Australia	8.9	4.1	8.1	22.0	3.3	12.0	17.0	3.4	14.0
EC-10	59.8	44.5	12.3	59.2	50.1	11.3	63.2	49.4	13.2
Argentina	14.5	4.5	7.5	12.0	4.5	9.5	12.2	4.5	8.0
Turkey	13.8	13.7	.5	13.3	13.6	.2	13.1	13.7	-.4
Major importers									
USSR	86.0	105.7	-19.7	78.0	94.5	-19.5	85.0	104.0	-19.0
China	68.4	81.4	-13.0	81.4	91.4	-10.0	80.0	92.0	-12.0
Eastern Europe	34.7	36.6	-2.0	34.8	36.6	-2.3	34.0	37.0	-2.8
Other W. Europe	8.5	9.1	+.3	8.8	9.5	-.7	8.4	9.0	-.4
Brazil	1.8	6.3	-3.6	2.1	6.3	-4.4	2.2	6.3	-4.2
Mexico	4.2	4.1	-.1	3.2	4.1	-.6	3.8	4.2	-.5
Other Latin Am.	1.3	7.6	-6.5	1.2	8.5	-7.1	1.4	8.6	-7.0
Japan	.7	6.1	-5.5	.7	6.1	-5.3	.6	6.1	-5.4
India	37.5	37.8	-3.6	42.5	41.9	-2.5	44.6	44.3	-.5
South Korea	.1	2.0	-1.9	.1	2.7	-2.5	.1	2.5	-2.5
Indonesia	0	1.5	-1.5	0	1.7	-1.7	0	1.7	-1.8
Other Asia	16.8	23.1	-6.4	18.0	24.2	-6.7	17.0	24.4	-6.7
Egypt	2.0	7.8	-5.3	2.0	8.0	-6.8	2.0	8.2	-6.8
Morocco	2.2	3.8	-1.3	2.0	4.2	-2.3	2.0	4.3	-2.3
Other N. Africa/ Mideast	12.2	23.1	-10.4	12.2	25.0	-13.4	12.8	25.9	-12.5
Other Africa	3.6	7.0	-3.7	2.8	7.4	-4.1	3.0	7.6	-4.6
Residual	.3	8.8	-5.1	.3	1.8	-1.6	.2	5.1	-3.5
World	480.6	469.1		489.5	482.8		498.0	498.2	

1/ Trade on July-June years.

2/ Forecast

Sponsored by Rohm and Haas Seeds Inc.

Wheat Inspected for Export by Class, Region, and Port Area

JUNE 1983 - MAY 1984
-1,000 BUSHELS-

AREAS	HARD RED SPRING	HARD RED WINTER	SOFT RED WINTER	WHITE	DURUM	MIXED	TOTAL
ST LAWR SWY							
SEAWAY PORTS	10,885	110	898	933	7,653	-	20,479
SUBTOTAL	10,885	110	898	933	7,653	0	20,479
LAKES							
(OVERSEAS)							
CHICAGO AREA	-	-	1,618	-	-	-	1,618
DULUTH-SUPR	36,616	-	-	-	28,533	-	65,149
TOLEDO AREA	-	-	-	671	-	-	671
SAGINAW AREA	-	-	-	-	-	-	0
SUBTOTAL	36,616	0	1,618	671	28,533	0	67,438
ATLANTIC							
NORTH	-		5,416	2,296	-	-	7,712
SOUTH	1,080	-	32,468	7,846	2,134	-	43,528
SUBTOTAL	1,080	0	37,884	10,142	2,134	0	51,240
GULF							
MISS RIVER	57,984	17,902	161,628	-	12,978	3,409	253,901
EAST GULF	-	-	9,286	-	187	-	9,473
N TEX GULF	-	518,006	750	-	49	-	518,805
S TEX GULF	-	13,298	-	-	210	-	13,508
SUBTOTAL	57,984	549,206	171,664	0	13,424	3,409	795,687
PACIFIC							
COLUMBIA R	99,847	77,025	-	183,759	1,133	-	361,764
PUGET SOUND	316	3,987	-	20,664	-	-	24,967
CALIFORNIA	-	6,253	-	-	5,699	-	11,952
SUBTOTAL	100,163	87,265	0	204,423	6,832	0	398,683
INTERIOR	-	-	-	-	-	-	0
SUBTOTAL	0	0	0	0	0	0	0
TOTALS							
JUNE 83 - MAY 84	206,728	636,581	212,064	216,169	58,576	3,409	1,333,527
JUNE 82 - MAY 83	226,372	627,811	318,191	207,168	50,815	3,278	1,433,635

WHEAT SHIPPED FOR STORAGE IN CANADA IS REPORTED AT THE TIME OF SHIPMENT FROM ST LAWR SWY PORTS

SOURCE: FEDERAL GRAIN INSPECTION SERVICE

U.S Wheat Exports by Destination

(JUNE/MAY -- 1,000 TONS)

Destination	1978/79	1979/80	1980/81	1981/82	1982/83	1983/84 1/
EC-10	2,308	2,372	2,490	2,478	1,749	1,491
Other W. Europe	940	1,298	1,155	2,213	738	1,302
Eastern Europe	681	2,847	1,230	545	196	355
USSR	2,604	4,422	3,000	6,539	3,374	4,141
China	2,618	1,616	8,700	7,950	5,324	2,917
Japan	3,306	3,095	3,530	3,417	3,322	3,435
Rep. of Korea	1,637	1,815	2,050	1,821	1,757	2,051
India	3	---	26	1,580	3,885	1,166
Egypt	1,393	1,249	1,600	2,483	1,728	1,346
Nigeria	852	1,024	1,140	1,272	1,240	1,631
Mexico	885	1,015	1,100	767	57	0
Brazil	1,696	2,194	2,170	3,115	2,113	2,247
Others	11,021	11,839	10,121	12,930	12,743	13,418
Total Wheat Excl. Products	30,703	35,603	39,312	47,110	38,226	35,500

1/ Sales plus accumulated exports, excluding sales and delivery for next marketing year

Source: FAS/USDA

USSR Wheat and Coarse Grains Imports

July/June, 1976/77-1983/84 1/

Item	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1982/83 2/	Projected 1983/84
				(1,000 metric tons)				
Total Grain	3,142	8,639	10,969	10,786	14,824	14,672	15,880	10,535
Argentina	477	432	1,044	465	200	245	2,114	1,012
Australia	745	4,603	1,438	3,637	1,484	1,492	1,210	1,875
Canada	1,920	3,321	3,181	2,647	2,922	3,068	4,300	3,775
United States 3/	--	283	5,209	3,858	9,335	9,335	6,489	3,600
EEC	--	--	--	--	642	134	1,485	123
Thailand	--	--	--	--	241	378	281	150
Other	--	--	97	179	--	20	1	--
Wheat	3,142	8,580	7,995	8,898	13,712	13,049	13,052	10,000
Argentina	477	373	885	465	200	199	1,957	1,000
Australia	745	4,603	1,438	3,572	1,440	1,384	1,210	1,800
Canada	1,920	3,321	3,181	2,647	2,922	2,991	4,217	3,700
United States 3/	--	283	2,491	2,135	8,508	8,359	4,207	3,400
EEC	--	--	--	--	642	116	1,461	100
Other	--	--	--	79	--	--	--	--
Coarse Grains	--	59	2,974	1,888	992	1,328	2,664	502
Argentina	--	59	159	--	0	46	157	2
Australia	--	--	--	65	44	108	0	75
Thailand	--	--	97	100	121	83	118	150
United States 3/	--	--	2,718	1,723	827	996	2,282	200
Canada	--	--	--	--	0	77	83	75
Other	--	--	--	--	--	18	24	--

1/ Wheat and coarse grains only.
2/ Preliminary or estimated.
3/ Direct exports plus transshipments through Canada

Peoples' Republic of China Wheat and Coarse Grains Imports

USSR Imports of Wheat and Coarse Grains by Source 1974/75 - 1983/84
July/June Years
(Million Metric Tons)

	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	Preliminary 1981/82	Preliminary 1982/83	Projected 1983/84
Wheat										
U.S. 1/	1.0	4.0	2.9	3.3	2.9	3.9	3.0	6.9	3.0	4.2
Canada	0.3	3.2	1.2	1.7	2.0	2.1	4.5	4.8	7.0	5.2
Australia	0.6	1.2	0.4	0.3	0.1	2.7	2.5	2.4	1.0	1.5
Argentina	0.6	1.2	0.1	1.1	--	2.0	3.0	3.1	4.2	3.6
EC	--	--	--	--	--	0.7	0.9	1.7	3.4	3.5
Others	--	0.4	--	0.2	0.1	0.6	2.1	0.6	1.6	2.0
Total*	2.5	10.1	4.6	6.7	5.1	12.1	16.0	19.5	20.2	20.0
Coarse Grains										
U.S. 1/	1.3	9.9	4.5	9.2	8.3	11.3	5.0	8.5	3.2	6.0
Canada	--	1.3	0.2	0.2	0.1	1.3	2.3	4.4	1.8	0.6
Australia	0.1	0.8	0.1	--	--	1.3	0.4	0.1	--	--
Argentina	1.1	0.2	0.2	1.6	1.4	3.1	8.2	10.2	5.4	4.1
EC	0.1	0.5	0.2	0.2	0.2	0.2	0.6	0.7	0.3	0.2
Others	0.1	2.6	0.3	0.6	--	1.2	1.5	1.6	0.6	1.2
Total*	2.7	15.6	5.7	11.7	10.0	18.3	18.0	25.5	11.3	12.1
Total										
U.S. 1/	2.3	13.9	7.4	12.5	11.2	15.2	8.0	15.4	6.2	10.2
Canada	0.3	4.5	1.4	1.9	2.1	3.4	6.8	9.2	8.8	5.8
Australia	0.7	2.0	0.5	0.3	0.1	4.0	2.9	2.5	1.0	1.5
Argentina	1.7	1.4	0.3	2.7	1.4	5.1	11.2	13.3	9.6	7.7
EC	0.1	0.5	0.2	0.2	0.2	0.9	1.5	2.4	3.7	3.7
Others	0.1	3.0	0.3	0.8	0.1	1.8	3.6	2.2	2.2	3.2
Total*	5.2	25.7	10.3	18.4	15.1	30.4	34.0	45.0	31.5	32.1

-- Denotes less than 50,000 tons.
* Totals may not add due to rounding. Excludes rice and pulses. Includes grain equivalent of flour.
1/ U.S. exports based upon Export Sales data, which normally include transshipments whereas Census data may not.

SOURCE: FAS, Grain and Feed Division

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Wheat Supply and Disappearance: Major U.S. Competitors

1973/74 - 1984/85
MILLION METRIC TONS/HECTARES

	AREA HARVESTED	YIELD	PRODUCTION	DOMESTIC USE	- - EXPORTS 1/ - JUL/JUN	MKT YEAR	MKT YEAR 2/ END STOCKS
	CANADA (Marketing Year Aug/Jul)						
1973/74	9.6	1.69	16.2	4.6	11.7	11.4	10.1
1974/75	8.9	1.49	13.3	4.6	11.2	10.7	8.0
1975/76	9.5	1.80	17.1	4.6	12.1	12.3	8.2
1976/77	11.3	2.10	23.6	5.0	12.9	13.4	13.3
1977/78	10.1	1.96	19.9	5.1	15.9	16.0	12.1
1978/79	10.6	2.00	21.1	5.3	13.5	13.1	14.9
1979/80	10.5	1.64	17.2	5.5	15.0	15.9	10.7
1980/81	11.1	1.73	19.2	5.0	17.0	16.3	8.6
1981/82	12.4	2.00	24.8	5.2	17.6	18.4	9.8
1982/83	12.6	2.13	26.8	5.1	21.2	21.4	10.1
1983/84 3/	13.7	1.96	26.9	5.3	20.5	20.5	11.2
1984/85 4/	13.4	1.94	26.0	5.4	21.0	21.0	10.8
	AUSTRALIA (Marketing Year Dec/Nov)						
1973/74	8.5	1.34	12.0	3.5	5.4	7.0	2.0
1974/75	8.3	1.37	11.4	3.1	8.3	8.6	1.7
1975/76	8.6	1.40	12.0	2.3	7.9	8.7	2.7
1976/77	9.0	1.30	11.7	2.8	8.5	9.5	2.1
1977/78	10.0	0.94	9.4	2.2	11.1	8.4	0.8
1978/79	10.2	1.77	18.1	2.6	6.7	11.7	4.6
1979/80	11.2	1.45	16.2	3.3	14.9	13.2	4.4
1980/81	11.3	0.96	10.9	3.6	10.6	9.6	2.1
1981/82	11.9	1.38	16.4	2.5	11.0	11.1	4.9
1982/83	11.5	0.77	8.9	4.1	8.1	7.3	2.4
1983/84 3/	12.6	1.73	21.8	3.3	12.0	14.0	7.0
1984/85 4/	12.6	1.33	16.8	3.4	14.0	14.5	5.9
	ARGENTINA (Marketing Year Dec/Nov)						
1973/74	4.0	1.66	6.6	4.2	1.1	1.6	1.0
1974/75	4.2	1.41	6.0	4.5	2.2	1.8	0.7
1975/76	5.3	1.63	8.6	5.4	3.2	3.2	0.7
1976/77	6.4	1.71	11.0	4.2	5.6	5.9	1.6
1977/78	3.9	1.46	5.7	4.3	2.6	1.8	1.2
1978/79	4.7	1.73	8.1	4.1	3.3	4.1	1.1
1979/80	4.8	1.69	8.1	4.0	4.8	4.8	0.4
1980/81	5.0	1.55	7.8	3.9	3.9	3.8	0.4
1981/82	5.9	1.40	8.3	4.3	4.3	3.6	0.8
1982/83	7.3	1.98	14.5	4.4	7.5	9.8	1.0
1983/84 3/	6.9	1.74	12.0	4.5	9.7	7.9	0.6
1984/85 4/	7.0	1.74	12.2	4.5	8.0	8.0	0.3
	EUROPEAN COMMUNITY (Marketing Year Aug/July) 5/						
1973/74	11.7	3.69	43.2	41.9	5.2	11.7	7.6
1974/75	12.2	3.92	47.7	42.8	6.9	12.3	10.0
1975/76	11.4	3.53	40.2	40.0	8.6	14.5	7.7
1976/77	12.1	3.42	41.5	40.5	5.1	10.9	7.4
1977/78	11.0	3.66	40.2	41.3	5.0	12.6	6.2
1978/79	12.0	4.20	50.3	42.7	8.8	15.3	9.1
1979/80	12.0	4.08	48.8	43.3	10.4	17.5	8.0
1980/81	12.6	4.38	55.1	43.9	14.7	20.7	8.8
1981/82	12.6	4.30	54.4	44.6	15.5	22.1	7.7
1982/83	13.0	4.60	59.8	44.5	15.5	21.2	11.3
1983/84 3/	13.2	4.50	59.3	49.7	16.0	20.8	9.3
1984/85 4/	13.5	4.66	62.9	49.9	16.5	22.3	9.3

1/ Includes the wheat equivalent of flour.
2/ Net changes in farm stocks for Argentina and Australia are reflected in domestic disappearance.
3/ Preliminary
4/ Projected
5/ Exports exclude INTRA-EC trade

Grades and Grade Requirements for All Classes of Wheat (Except Mixed)

Grade	Minimum test weight per bushel: Hard Red Spring Wheat or White Club Wheat	Minimum test weight per bushel: All other classes & subclasses	Maximum limits of -- : Heat-damaged Kernels	Damaged Kernels (total)1/	Foreign Material	Shrunken and broken Kernels	Defects (total)2/	Wheat of other classes 3/: Contrasting classes	Wheat of other classes 3/: Wheat of other classes (total)4/
	Pounds	Pounds	Percent	Percent	Percent	Percent	Percent	Percent	Percent
U.S. No. 1	58.0	60.0	0.2	2.0	0.5	3.0	3.0	1.0	3.0
U.S. No. 2	57.0	58.0	0.2	4.0	1.0	5.0	5.0	2.0	5.0
U.S. No. 3	55.0	56.0	0.5	7.0	2.0	8.0	8.0	3.0	10.0
U.S. No. 4	53.0	54.0	1.0	10.0	3.0	12.0	12.0	10.0	10.0
U.S. No. 5	50.0	51.0	3.0	15.0	5.0	20.0	20.0	10.0	10.0
U.S. Sample grade	U.S. Sample Grade shall be wheat which: (1) Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, 4, or 5; or (2) Contains a quantity of smut so great that one or more of the grade requirements cannot be determined accurately; or (3) Contains 8 or more stones, 2 or more pieces of glass, 3 or more crotalaria seeds (Crotalaria spp.), 3 or more castor beans (Ricinus communis), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), or 2 or more rodent pellents, bird droppings, or an equivalent quantity of other animal filth per 1,000 grams of wheat; or (4) Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor); or (5) Is heating or otherwise of distinctly low quality.								

1/ Includes heat-damaged kernels.
2/ Defects (total) include damaged kernels (total), foreign material, and shrunken and broken kernels. The sum of these three factors may not exceed the limit for defects.
3/ Unclassed Wheat of any grade may contain not more than 10 percent of wheat of other classes.
4/ Includes contrasting classes.

Wheat Harvest Calendar and Statistical Crop Year

Country	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Statistical Crop Year
	WHEAT HARVEST PERIOD												
EEC:													
Belgium							XXXXXXXXXX						Aug. 1/July 31
Denmark							XXXXXXXXXX						Aug. 1/July 31
France						XXXXXXXXXXXXXXX							Aug. 1/July 31
Germany							XXXXXXXXXX						Aug. 1/July 31
Ireland							XXXXXXXXXX						Aug. 1/July 31
Italy						XXXXXXXXXXXXXXX							Aug. 1/July 31
Luxemburg							XXXXXXXXXX						Aug. 1/July 31
Netherlands							XXXXXXXXXX						Aug. 1/July 31
United Kingdom							XXXXXXXXXX						Aug. 1/July 31
USSR:													
Central							XXXXXXXXXX						Jan. 1/Dec. 31
North								XXXXXXXXXXX					Jan. 1/Dec. 31
South						XXXXXXXXXXXXXXXX							Jan. 1/Dec. 31
North & Cent. Am.:													
Canada								XXXXXXXXXXX					Aug. 1/July 31
Mexico				XXXXXXXXXXXXXX									----------
USA:													
Central						XXXXXXXXXX							June 1/May 31
North								XXXXXXXXXXX					June 1/May 31
South						XXXXXXXXXX							June 1/May 31
So. Am.													
Argentina	XXXX										XXXXXXXXX		Dec. 1/Nov. 30
Brazil	XXXX										XXXXXXXXX		----------
Chile	XXXX											XXX	July 1/June 30
Asia:													
China, P.R.					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX								----------
India		XXXXXXXXXXXXXXX											Apr. 1/Mar. 31
Iran				XXXXXXXX									Mar. 21/Mar 20
Japan					XXXXXXXXXXXXXX								Apr. 1/Mar. 31
Africa:													
Egypt		XXXXXXXXXXXXXXXXXX											July 1/June 30
Oceania:													
Australia	XXXX									XXXXXXXXXXXXXX			Dec. 1/Nov. 30

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Wheat: Weights and Measures

Weight

1 bu. wheat = 60 pounds
1 bu. soybeans = 60 pounds
1 bu. corn* = 56 pounds
1 bu. oats = 32 pounds

Bushels to Metric Tons

wheat = bu. X 0.027216
soybeans = bu. X 0.027216
corn* = bu. X 0.025400
oats = bu. X 0.014515

Metric Tons of Wheat to Bushels

tons	bu.	tons	bu.	tons	bu.	tons	bu.
1	36.74	100	3,674.37	1,000	36,743.71	100,000	3,674,371.00
2	73.49	200	7,348.74	2,000	73,487.42	200,000	7,348,742.00
3	110.23	300	11,023.11	3,000	110,231.13	300,000	11,023,113.00
4	146.97	400	14,697.48	4,000	146,974.84	400,000	14,697,484.00
5	183.72	500	18,371.86	5,000	183,718.55	500,000	18,371,855.00
6	220.46	600	22,046.23	6,000	220,462.26	600,000	22,046,226.00
7	257.21	700	25,720.60	7,000	257,205.97	700,000	25,720,597.00
8	293.95	800	29,394.97	8,000	293,949.68	800,000	29,394,968.00
9	330.69	900	33,069.34	9,000	330,693.39	900,000	33,069,339.00

1 Metric Ton Equals

2,204.622 pounds
1,000 kilograms
36.74371 bu. of wheat or soybeans
39.3679 bu. of corn, sorghum or rye
45.9296 bu. of barley
68.8944 bu. of oats
22.046 hundredweight
10 quintals

1 Bushel of Wheat Equals

0.030 short tons
0.0272155 metric tons
0.0267857 long tons
27.21555 kilograms

Acreage Equivalents

1 hectare = 2.47 acres

1 acre = 0.405 hectare

Yield Equivalents

wheat bu./acre = 0.6725 quintals/hectare

corn bu./acre = 0.6277 quintals/hectare

Wheat Flour Equivalents

100 pounds = 2.30 bushels of wheat
1 barrel wheat flour = 196 pounds
4.51 bu. = 1 barrel of flour

*Sorghum and rye weigh same as corn

Five Basic Classes of Wheat

Wheat varieties grown in the United States are either "winter wheat" or "spring wheat," depending on the season each is planted. Winter wheat varieties are sown in the fall and make some preliminary growth before cold weather arrives. The plants lie dormant through the winter. In the spring they resume growth and grow rapidly until summertime harvest. Spring wheat which is produced in northern states where winters are too severe for fall sown wheat to survive, is sown in the spring as soon as the ground is workable, and it grows continuously until harvest.

The many varieties of winter and spring wheat are grouped into five basic classes. The class a variety fits into is determined by the hardness and color of its kernels, as well as by its planting time. Each class of wheat has its own similar family characteristics, especially as related to milling and to baking or other food use.

The five basic classes:

HARD RED WINTER: An important bread wheat. Accounts for a majority of the U.S. wheat crop. Produced in the Great Plains states, a large interior area extending from the Mississippi River west to the Rocky Mountains, and from the Dakotas and Montana down to Texas. Fall seeded. Wide range of protein content. Good milling and baking characteristics. No subclasses.

HARD RED SPRING: Another important bread wheat. Excellent protein content and milling and baking characteristics. Spring seeded. Grown in north central United States -- North Dakota, South Dakota, Minnesota and Montana. Subclasses include Dark Northern Spring, Northern Spring and Red Spring.

SOFT RED WINTER: Grown in the eastern third of the United States. High yielding. Relatively low protein. Provides flour for cakes, pastries, quick breads, crackers, and snack foods. No subclasses.

WHITE WHEAT: Used in the same ways as Soft Red Winter (for bakery products other than bread). Grown mainly in the Pacific Northwest; to a lesser extent in California, Michigan, Wisconsin and New York state. Includes both winter and spring varieties. High yields. Relatively low protein. An important export wheat, particularly to the Far East. Subclasses include Hard White, Soft White, Western White and White Club.

DURUM: The hardest of all U.S. wheats. Provides semolina for spaghetti, macaroni and other pasta products. Grown in the same northern area as Hard Red Spring mainly in North Dakota. Subclasses are Hard Amber Durum, Ambur Durum and Durum.

Other Classes:

UNCLASSED WHEAT: Any variety of wheat which is not classifiable under other criteria provided in the wheat standards. There are no subclasses in this class. This class includes: 1) Red Durum wheat, 2) Any wheat which is other than red or white in color.

MIXED WHEAT: Any mixture of wheat consisting of less than 90 percent of one class and more than 10 percent of one other class, or a combination of classes which meets the definition of wheat.

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One bushel of wheat yields 73 one pound loaves of white bread.

2.3 bushels of wheat yields 100 pounds of flour...and that much flour makes approximately 90 loaves of 22.5 ounce bread.

Per capita consumption of wheat flour and cereal totaled 116 pounds in 1983.

One farmer now supplies enough food for 76 people - only 10 years ago he was producing for 29.

Production from one cropland acre out of every four goes overseas: while production from two out of every three wheat acres is exported.

Americans spend about 15.6 percent of their disposable income on food, both at home and away from home.

A modern combine can harvest 1,000 bushels per hour. Since one bushel of wheat yields 73 one pound loaves, this equates to 73,000 loaves per hour or 1,217 per minute.

Developing a conventional new wheat hybrid takes a minimum of 10 years.

In 1880, 373 man-hours were required to produce 100 bushels of wheat, compared to 10 man-hours today.

One bushel of wheat contains approximately one million individual kernels.

Per capita disposable income of farmers is 88 percent of that of the non-farm population.

Three percent of the U.S. work force is directly involved in producing crops and livestock, another 20 percent is employed in the manufacturing, processing, transporting, and retailing industries associated with food production and consumption.

It is estimated that there are over 400 varieties of wheat grown in the United States.

Archaeological evidence indicates that wheat has been grown as a food grain since approximately 2,000 B.C. In fact, wheat was a subject of Greek writings in 300 B.C.

The U.S. uses over 3 million bushels of wheat a day for food and feed; while the world uses over 36 million bushels of wheat per day.

For every $1 of farm income, another $2 is generated in economic activity.

Agricultural exports support over 1.2 million jobs, and accounts for 28 percent of total farm income.

Agriculture accounts for more than 20 percent of the nations Gross National Product.

Agricultural assets exceed $1 trillion, that's more than the total for steel, auto, and household industries.

Crops grown in this country must compete with 800,000 species of insects, 100,000 plant diseases, 30,000 species of weeds, and 3,000 species of nematodes.

1984
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